

**Mallinckrodt Inc.**675 McDonnell Blvd.  
P.O. Box 5840  
St. Louis, MO 63134Phone: (314) 654-2000  
Fax: (314) 654-6496

September 27, 1999

Dockets Management Branch  
Food and Drug Administration  
Department of Health and Human Services  
Room 1-23  
12420 Parklawn Drive  
Rockville, MD 20857**CITIZEN PETITION**

Mallinckrodt Inc. submits this petition pursuant to 21 CFR §§10.20 and 10.30, under Section 505(j)(2)(C) of the Federal Food, Drug and Cosmetic Act and 21 C.F.R. §314.93 to request that the Commissioner of Food and Drugs make a determination that an Abbreviated New Drug Application may be submitted for Hydrocodone Bitartrate and Acetaminophen Tablets, USP (5 mg/325 mg) which relies on a listed drug that is not being marketed.

**A. Action Requested**

The petitioner requests that the Commissioner of Food and Drugs make a determination that an Abbreviated New Drug Application may be submitted per 21 C.F.R. §314.122 for Hydrocodone Bitartrate and Acetaminophen Tablets, USP (5 mg/325 mg) for product that, to the best of Mallinckrodt Inc.'s knowledge, has been determined to be safe and effective, yet has never been marketed.

**B. Statement of Grounds**

The basis for this proposed Abbreviated New Drug Application is Lortab 5/325 owned by UCB Pharma, Inc. (ANDA #40-099). However, Lortab 5/325 is not identified as a reference listed drug in the 19<sup>th</sup> edition of Approved Drug Products with Therapeutic Equivalence Evaluations (Orange Book) and furthermore, the product is not currently being marketed. The legal basis for UCB's ANDA #40-099 was a Citizen Petition filed by Mikart Inc. (Docket No. 87P-0129/CP) which was approved June 8, 1987 for submission of an Abbreviated New Drug Application for Hydrocodone Bitartrate and Acetaminophen Tablets, USP (5 mg/325 mg). The listed drug product which Mikart referenced in the petition is Vicodin (Hydrocodone Bitartrate and Acetaminophen Tablets, USP 5 mg/500 mg) manufactured by Knoll Pharmaceuticals, Inc. A copy of the June 8, 1987 approval letter as well as a copy of the relevant pages of the Orange Book are attached for your review. Based on the Orange Book, Mikart has not received

99P-4209

CP1

approval to market a 5 mg/325 mg strength of Hydrocodone Bitartrate and Acetaminophen Tablets, USP.

Consistent with Mikart's suitability petition (Docket No. 87P-0129/CP), Mallinckrodt intends to compare its proposed 5 mg/325 mg test product to Vicodin 5 mg/500 mg for dissolution testing. The reference product, Vicodin (Hydrocodone Bitartrate and Acetaminophen Tablets, USP 5 mg/500 mg) is classified AA in the 19<sup>th</sup> edition of Approved Drug Products with Therapeutic Equivalence Evaluations. Mallinckrodt Inc.'s proposed test product (Hydrocodone Bitartrate and Acetaminophen Tablets, USP 5 mg/325 mg), which differs only in formulation and a smaller amount of acetaminophen, would also qualify for an AA rating. Therefore, with acceptable dissolution testing, there would be no need to conduct an *in-vivo* bioequivalence study.

#### **C. Environmental Impact**

An environmental assessment on the action requested in this petition qualifies for a categorical exclusion under 21 CFR 25.31. Therefore, an environmental assessment is not required for the requested action.

#### **D. Economic Impact**

Pursuant to 21 CFR 10.30(b), economic impact information is to be submitted only when requested by the Commissioner. Mallinckrodt Inc. will promptly provide such information if so requested.

#### **E. Certification**

Mallinckrodt Inc. certifies that, to its best knowledge and belief, this petition includes all information and views on which the petition relies, and that it includes representative data and information known to the petitioner which are unfavorable to the petition.



Connie McNabb  
Regulatory Affairs Associate  
675 McDonnell Blvd.  
P.O. Box 5840  
St. Louis, MO 63134  
Phone: (314) 654-6551  
Fax: (314) 654-6496



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

RECEIVED JUN 11 1987

Food and Drug Administration  
Rockville MD 20857

JUN 8 1987

Mikart Inc.  
Attn: Ms. Cerie B. McDonald  
2090 Marietta Boulevard  
Atlanta, GA 30318

Docket No. 87P-0129/CP

Dear Ms. McDonald:

This is in response to your petition filed on 4/10/87 requesting permission to file Abbreviated New Drug Applications (ANDAs) for the following drug products acetaminophen (APAP) and Hydrocodone Bitartrate (HCB) 325 mg/2.5 mg, 325 mg/5 mg, 325 mg/7.5 mg and 325 mg/10 mg Tablets. The listed drug product to which you refer is Vicodin (acetaminophen 500 mg and hydrocodone bitartrate 5 mg) Tablets manufactured by Knoll Pharmaceutical. We have reviewed your petition under Section 505(j)(2)(C) of the Federal Food, Drug, and Cosmetic Act (Act), and have determined that it is approved. This letter represents the Agency's determination that ANDAs may be submitted for the above-referenced products.

Your request involves a change in strength of non narcotic component of the listed drug product, i.e. APAP from 500 mg to 325 mg and additional strengths of HCB, i.e. from 5 mg to 2.5 mg, 7.5 mg and 10 strengths. The type of changes you request are the type of changes authorized under Section 505 (j)(2)(C) of the Act.

Under Section 505(j)(2)(C)(i) of the Act the Agency will approve a petition seeking a strength which differs from the strength of the listed drug product unless it finds that investigations must be conducted to show the safety and effectiveness of the differing strength.

The Agency has determined that the change in strength of both the non-narcotic and narcotic components of the proposed products do not pose questions of safety or effectiveness for the reasons discussed below.

The approved labeling for the listed drug provides for dosage adjustment according to the severity of pain and response of the patient. The labeling for the listed drug states that the dose may be adjusted up to two tablets (10 mg of HCB and 1000 mg of APAP) in a single dose. Therefore the dose of the proposed products falls within the dosing range recommended for the listed drug. Despite these facts the Agency would not usually approve a petition to submit an ANDA for a proposed product with a higher or lower strength dosage unit than had been previously approved. However, the Agency has concluded that codeine and HCB have a potency ratio of 6:1. Based upon the 6:1 potency ratio, a proposed product containing a 2.5 mg, 5 mg, 7.5 mg or 10 mg dose of

HCB is equivalent to approved products containing 15 mg, 30 mg, 45 mg and 60 mg of codeine respectively as an initial dose. In addition, there are listed drug products that contain 325 mg of APAP in combination with narcotic analgesics. The Agency has determined that there are no investigations necessary to establish the safety and effectiveness of the change in strength of the proposed products and, therefore, ANDAs may be submitted for these products.

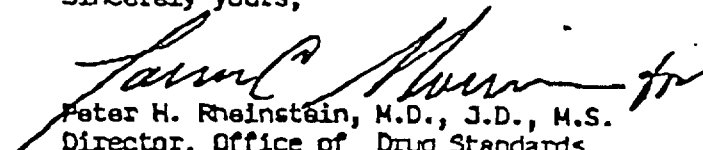
The approval of these petitions to allow ANDAs to be submitted for the above referenced products does not mean that the Agency has determined that ANDAs will be approved for the products. The determination that ANDAs will be approved is not made until the ANDAs themselves are submitted and reviewed by the Agency.

To permit review of your ANDA submissions you must submit all information required under Sections 505(j)(2)(A) and (B) of the Act. To be approved the products will, among other things, be required to meet current bioequivalence requirements under Section 505(j)(2)(A)(iv) of the Act. We suggest that you contact the Director, Division of Bioequivalence at (301) 443-0181 to determine the specific requirements for these products. During the review of your applications, the Agency may require the submission of additional information.

The listed drug product to which you refer in your ANDA must be the one upon which you based these petitions. In addition, you should refer in your ANDA to the appropriate petition docket number cited above, and include a copy of this letter in the ANDA submissions.

A copy of this letter approving your petitions will be placed on public display in the Dockets Management Branch, HFA-305, Room 4-62.

Sincerely yours,



Peter H. Rheinstein, M.D., J.D., M.S.  
Director, Office of Drug Standards  
Center for Drugs and Biologics

# **APPROVED DRUG PRODUCTS with THERAPEUTIC EQUIVALENCE EVALUATIONS**

The products in this list have been approved under section 505 of the Federal Food, Drug, and Cosmetic Act. This volume and accompanying first supplement are current through January 31, 1999.

## **19<sup>TH</sup> EDITION**



**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
PUBLIC HEALTH SERVICE  
FOOD AND DRUG ADMINISTRATION  
CENTER FOR DRUG EVALUATION AND RESEARCH  
OFFICE OF INFORMATION TECHNOLOGY  
DIVISION OF DATA MANAGEMENT AND SERVICES**

**1999**

# PRESCRIPTION DRUG PRODUCT LIST

3-5

## ACETAMINOPHEN; HYDROCODONE BITARTRATE

<u>TABLET; ORAL</u>		
<u>HYDROCODONE BITARTRATE AND ACETAMINOPHEN</u>		
<u>AA</u>	<u>VINTAGE PHARMS</u>	<u>650MG;10MG</u>
<u>AA</u>		<u>750MG;7.5MG</u>
<u>AA</u>	<u>WATSON LABS</u>	<u>500MG;2.5MG</u>
<u>AA</u>		<u>500MG;2.5MG</u>
<u>AA</u>		<u>500MG;5MG</u>
<u>AA</u>		<u>500MG;5MG</u>
<u>AA</u>		<u>500MG;7.5MG</u>
<u>AA</u>		<u>500MG;7.5MG</u>
<u>AA</u>		<u>500MG;10MG</u>
<u>AA</u>		<u>650MG;7.5MG</u>
<u>AA</u>		<u>650MG;7.5MG</u>
<u>AA</u>		<u>650MG;10MG</u>
<u>AA</u>		<u>650MG;10MG</u>
<u>AA</u>		<u>750MG;7.5MG</u>
<u>AA</u>		<u>750MG;7.5MG</u>
<u>AA</u>	<u>ZENITH GOLDLINE</u>	<u>500MG;5MG</u>
<u>AA</u>	<u>LORTAB</u>	
<u>AA</u>	<u>MALLINCKRODT</u>	<u>500MG;5MG</u>
<u>AA</u>	<u>+ UCB</u>	<u>500MG;10MG</u>
		<u>325MG;5MG</u>
	<u>NORCO</u>	
	<u>+ WATSON LABS</u>	<u>325MG;10MG</u>
<u>AA</u>	<u>VICODIN</u>	
<u>AA</u>	<u>+ KNOLL PHARM</u>	<u>500MG;5MG</u>

N40143 001  
FEB 22, 1996  
N40157 001  
APR 12, 1996  
N40123 003  
MAR 04, 1996  
N81079 001  
AUG 30, 1991  
N40122 001  
MAR 04, 1996  
N89883 001  
DEC 01, 1988  
N40123 004  
MAR 04, 1996  
N81080 001  
AUG 30, 1991  
N40148 002  
FEB 14, 1997  
N40094 001  
SEP 29, 1995  
N40123 001  
MAR 04, 1996  
N40094 002  
SEP 29, 1995  
N40123 002  
MAR 04, 1996  
N40122 002  
MAR 04, 1996  
N81083 001  
AUG 30, 1991  
N89696 001  
APR 21, 1988  
  
N87722 001  
JUL 09, 1982  
N40100 001  
JAN 26, 1996  
N40099 001  
JUN 25, 1997  
  
N40148 001  
FEB 14, 1997  
  
N88058 001  
JAN 07, 1983

## ACETAMINOPHEN; HYDROCODONE BITARTRATE

<u>TABLET; ORAL</u>		
<u>VICODIN ES</u>		
<u>AA</u>	<u>+ KNOLL PHARM</u>	<u>750MG;7.5MG</u>
<u>VICODIN HP</u>		
<u>AA</u>	<u>KNOLL PHARM</u>	<u>660MG;10MG</u>
<u>ACETAMINOPHEN; OXYCODONE</u>		
<u>CAPSULE; ORAL</u>		
<u>OXYCODONE AND ACETAMINOPHEN</u>		
<u>AA</u>	<u>HALSEY</u>	<u>500MG;5MG</u>
<u>ACETAMINOPHEN; OXYCODONE HYDROCHLORIDE</u>		
<u>CAPSULE; ORAL</u>		
<u>OXYCODONE AND ACETAMINOPHEN</u>		
<u>AA</u>	<u>AMIDE PHARM</u>	<u>500MG;5MG</u>
<u>AA</u>	<u>MALLINCKRODT</u>	<u>500MG;5MG</u>
<u>AA</u>	<u>VINTAGE PHARMS</u>	<u>500MG;5MG</u>
<u>AA</u>	<u>WATSON LABS</u>	<u>500MG;5MG</u>
<u>AA</u>	<u>ROXILOX</u>	
<u>AA</u>	<u>ROXANE</u>	<u>500MG;5MG</u>
<u>AA</u>	<u>TYLOX</u>	
<u>AA</u>	<u>+ JOHNSON RW</u>	<u>500MG;5MG</u>
<u>SOLUTION; ORAL</u>		
<u>ROXICET</u>		
	<u>ROXANE</u>	<u>325MG/5ML;5MG/5ML</u>
<u>TABLET; ORAL</u>		
<u>OXYCET</u>		
<u>AA</u>	<u>MALLINCKRODT</u>	<u>325MG;5MG</u>
<u>OXYCODONE AND ACETAMINOPHEN</u>		
<u>AA</u>	<u>DURAMED</u>	<u>325MG;5MG</u>

N89736 001  
DEC 09, 1988  
  
N40117 001  
SEP 23, 1996  
  
  
  
  
  
  
N40219 001  
JAN 22, 1998  
  
  
  
  
  
  
N40199 001  
DEC 30, 1998  
N40257 001  
AUG 04, 1998  
N40106 001  
JUL 30, 1996  
N40234 001  
OCT 30, 1997  
  
N40061 001  
JUL 03, 1995  
  
N88790 001  
DEC 12, 1984  
  
  
  
N89351 001  
DEC 03, 1986  
  
  
  
N87463 001  
DEC 07, 1983  
  
N40272 001  
JUN 30, 1998

# PRESCRIPTION DRUG PRODUCT LIST

3-4

## ACETAMINOPHEN; HYDROCODONE BITARTRATE

<u>ELIXIR; ORAL</u>	
<u>HYDROCODONE BITARTRATE AND ACETAMINOPHEN</u>	
<u>AA</u> + MIKART	<u>500MG/15ML; 7.5MG/15ML</u>
	500MG/15ML; 5MG/15ML
+	500MG/15ML; 5MG/15ML
<u>AA</u> PHARM ASSOC	<u>500MG/15ML; 7.5MG/15ML</u>
 <u>TABLET; ORAL</u>	
<u>ANEXSIA</u>	
<u>AA</u> MALLINCKRODT	<u>500MG; 5MG</u>
 <u>ANEXSIA 10/660</u>	
<u>AA</u> + MALLINCKRODT	<u>660MG; 10MG</u>
 <u>ANEXSIA 7.5/650</u>	
<u>AA</u> MALLINCKRODT	<u>650MG; 7.5MG</u>
 <u>CO-GESIC</u>	
<u>AA</u> SCHWARZ PHARMA	<u>500MG; 5MG</u>
 <u>HY-PHEN</u>	
<u>AA</u> ASCHER	<u>500MG; 5MG</u>
 <u>HYDROCODONE BITARTRATE AND ACETAMINOPHEN</u>	
<u>AA</u> ENDO PHARMS	<u>500MG; 5MG</u>
<u>AA</u>	<u>500MG; 7.5MG</u>
<u>AA</u>	<u>650MG; 7.5MG</u>
<u>AA</u>	<u>650MG; 10MG</u>
<u>AA</u>	<u>750MG; 7.5MG</u>
	400MG; 5MG
	400MG; 7.5MG
	400MG; 10MG
<u>AA</u> EON	<u>500MG; 5MG</u>

N81051 001  
AUG 28, 1992  
N81226 001  
OCT 27, 1992  
N89557 001  
APR 29, 1992  
N40182 001  
MAR 13, 1998  
  
N89160 001  
APR 23, 1987  
N40084 003  
JUL 29, 1996  
N89725 001  
SEP 30, 1987  
N87757 001  
MAY 03, 1982  
N87677 001  
MAY 03, 1982  
N40281 001  
SEP 30, 1998  
N40280 001  
SEP 30, 1998  
N40280 002  
SEP 30, 1998  
N40280 003  
SEP 30, 1998  
N40281 002  
SEP 30, 1998  
N40288 001  
NOV 27, 1998  
N40288 002  
NOV 27, 1998  
N40288 003  
NOV 27, 1998  
N40149 001  
JAN 27, 1997

## ACETAMINOPHEN; HYDROCODONE BITARTRATE

<u>TABLET; ORAL</u>	
<u>HYDROCODONE BITARTRATE AND ACETAMINOPHEN</u>	
<u>AA</u> EON	<u>750MG; 7.5MG</u>
<u>AA</u> HALSEY	<u>500MG; 5MG</u>
<u>AA</u>	<u>650MG; 7.5MG</u>
<u>AA</u>	<u>650MG; 10MG</u>
<u>AA</u>	<u>750MG; 7.5MG</u>
<u>AA</u> MALLINCKRODT	<u>500MG; 5MG</u>
<u>AA</u>	<u>500MG; 7.5MG</u>
<u>AA</u>	<u>500MG; 10MG</u>
<u>AA</u>	<u>750MG; 7.5MG</u>
<u>AA</u> + MIKART	<u>500MG; 2.5MG</u>
<u>AA</u>	<u>500MG; 5MG</u>
<u>AA</u>	<u>500MG; 5MG</u>
<u>AA</u> +	<u>500MG; 7.5MG</u>
<u>AA</u> +	<u>650MG; 7.5MG</u>
<u>AA</u> +	<u>650MG; 10MG</u>
<u>AA</u> PEACHTREE	<u>500MG; 10MG</u>
<u>AA</u> UCB	<u>650MG; 7.5MG</u>
<u>AA</u> VINTAGE PHARMS	<u>500MG; 2.5MG</u>
<u>AA</u>	<u>500MG; 5MG</u>
<u>AA</u>	<u>500MG; 5MG</u>
<u>AA</u>	<u>500MG; 7.5MG</u>
<u>AA</u>	<u>650MG; 7.5MG</u>

N40149 002  
JAN 27, 1997  
N40236 001  
SEP 25, 1997  
N40240 002  
NOV 26, 1997  
N40240 001  
NOV 26, 1997  
N40236 002  
SEP 25, 1997  
N40084 002  
JUN 01, 1995  
N40201 001  
FEB 27, 1998  
N40201 002  
FEB 27, 1998  
N40084 001  
JUN 01, 1995  
N89698 001  
AUG 25, 1989  
N89271 001  
JUL 16, 1986  
N89697 001  
JAN 28, 1992  
N89699 001  
AUG 25, 1989  
N89689 001  
JUN 29, 1988  
N81223 001  
MAY 29, 1992  
N40210 001  
AUG 13, 1997  
N40134 001  
NOV 21, 1996  
N40144 002  
APR 25, 1997  
N89831 001  
SEP 07, 1988  
N89971 001  
DEC 02, 1988  
N40144 001  
FEB 22, 1996  
N40155 001  
APR 14, 1997

## DISCONTINUED DRUG PRODUCT LIST

3-361

ACETAMINOPHEN; CODEINE PHOSPHATE

TABLET; ORAL		
TYLENOL W/ CODEINE		
JOHNSON RW	325MG;15MG	N85056 002
	325MG;30MG	N85056 003
	325MG;60MG	N85056 004

ACETAMINOPHEN; HYDROCODONE BITARTRATE

CAPSULE; ORAL		
BANCAP HC		
FOREST PHARMS	500MG;5MG	N87961 001
		MAR 17, 1983
CO-GESIC		
CENT PHARMS	500MG;5MG	N89360 001
		MAR 02, 1988

TABLET; ORAL		
DURADYNE DHC		
FOREST PHARMS	500MG;5MG	N87809 001
		MAR 17, 1983
HYDROCODONE BITARTRATE AND ACETAMINOPHEN		
BARR	500MG;5MG	N88577 001
		DEC 21, 1984
HALSEY	500MG;5MG	N89554 001
		JUN 12, 1987
ROSEMONT	500MG;5MG	N89290 001
		MAY 29, 1987
	500MG;5MG	N89291 001
		MAY 29, 1987

NORCET		
ABANA	500MG;5MG	N88871 001
		MAY 15, 1986
TYCOLET		
JOHNSON RW	500MG;5MG	N89385 001
		AUG 27, 1986
VICODIN		
KNOLL PHARM	500MG;5MG	N85667 001

ACETAMINOPHEN; OXYCODONE HYDROCHLORIDE

CAPSULE; ORAL		
OXYCODONE AND ACETAMINOPHEN		
HALSEY	500MG;5MG	N89994 001
		MAY 04, 1989

ACETAMINOPHEN; OXYCODONE HYDROCHLORIDE

CAPSULE; ORAL		
TYLOX-325		
JOHNSON RW	325MG;5MG	N88246 001
		NOV 08, 1984

TABLET; ORAL		
OXYCODONE 2.5/APAP 500		
DUPONT MERCK	500MG;2.5MG	N85910 001
OXYCODONE 5/APAP 500		
DUPONT MERCK	500MG;5MG	N85911 001

ACETAMINOPHEN; OXYCODONE HYDROCHLORIDE; OXYCODONE TEREPHTHALATE

CAPSULE; ORAL		
TYLOX		
JOHNSON RW	500MG;4.5MG;0.38MG	N85375 001

ACETAMINOPHEN; PROPOXYPHENE HYDROCHLORIDE

TABLET; ORAL		
DARVOCET		
LILLY	325MG;32.5MG	N16844 001
DOLENE AP-65		
LEDERLE	650MG;65MG	N85100 001
PROPOXYPHENE HCL AND ACETAMINOPHEN		
MYLAN	325MG;32MG	N83689 001

ACETAMINOPHEN; PROPOXYPHENE NAPSYLATE

TABLET; ORAL		
PROPOXYPHENE NAPSYLATE AND ACETAMINOPHEN		
CIRCA	325MG;50MG	N70398 001
		DEC 18, 1986
	650MG;100MG	N70399 001
		DEC 18, 1986
HALSEY	325MG;50MG	N72105 001
		MAY 13, 1988
	650MG;100MG	N72106 001
		MAY 13, 1988
SUPERPHARM	650MG;100MG	N71319 001
		JAN 06, 1987
TEVA	650MG;100MG	N70732 001
		JAN 03, 1986



**Acetaminophen:** In acetaminophen overdose, dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma and thrombocytopenia may also occur.

Early symptoms following a potentially hepatotoxic overdose may include nausea, vomiting, diaphoresis and general malaise. Clinical and laboratory evidence of hepatic toxicity may not be apparent until 48 to 72 hours post-ingestion.

In adults, hepatic toxicity has rarely been reported with acute overdoses of less than 10 grams, or fatalities with less than 15 grams.

**Treatment:** A single or multiple overdose with hydrocodone and acetaminophen is a potentially lethal polydrug overdose, and consultation with a regional poison control center is recommended.

Immediate treatment includes support of cardiorespiratory function and measures to reduce drug absorption. Vomiting should be induced mechanically, or with syrup of ipecac, if the patient is alert (adequate pharyngeal and laryngeal reflexes). Oral activated charcoal (1 g/kg) should follow gastric emptying. The first dose should be accompanied by an appropriate cathartic. If repeated doses are used, the cathartic might be included with alternate doses as required. Hypotension is usually hypovolemic and should respond to fluids. Vasopressors and other supportive measures should be employed as indicated. A cuffed endo-tracheal tube should be inserted before gastric lavage of the unconscious patient and, when necessary, to provide assisted respiration.

Meticulous attention should be given to maintaining adequate pulmonary ventilation. In severe cases of intoxication, peritoneal dialysis, or preferably hemodialysis may be considered. If hypoprothrombinemia occurs due to acetaminophen overdose, vitamin K should be administered intravenously.

Naloxone, a narcotic antagonist, can reverse respiratory depression and coma associated with opioid overdose. Naloxone hydrochloride 0.4 mg to 2 mg is given parenterally. Since the duration of action of hydrocodone may exceed that of the naloxone, the patient should be kept under continuous surveillance and repeated doses of the antagonist should be administered as needed to maintain adequate respiration. A narcotic antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression.

If the dose of acetaminophen may have exceeded 140 mg/kg, acetylcysteine should be administered as early as possible. Serum acetaminophen levels should be obtained, since levels four or more hours following ingestion help predict acetaminophen toxicity. Do not repeat acetaminophen assay results before initiating treatment. Hepatic enzymes should be obtained initially, and repeated at 24-hour intervals.

Methemoglobinemia over 30% should be treated with methylene blue by slow intravenous administration.

The toxic dose for adults for acetaminophen is 10 g.

#### USAGE AND ADMINISTRATION

Dosage should be adjusted according to severity of pain and response of the patient. However, it should be kept in mind that tolerance to hydrocodone can develop with continued use and that the incidence of untoward effects is dose related.

The usual adult dosage is one or two tablets every four to six hours as needed for pain. The total daily dosage should not exceed 8 tablets.

#### HOW SUPPLIED

Lortab 5/325 tablets (Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg/325 mg) contain hydrocodone bitartrate 5 mg (Warning: May be habit forming) and acetaminophen 325 mg. They are supplied as white with orange specks capsule-shaped, bisected tablets, debossed "Whitby/935," in containers of 100 tablets, NDC 50474-935-01, and in containers of 500 tablets, NDC 50474-935-50.

**Storage:** Store at controlled room temperature, 15°-30°C (59°-86°F).

Dispense in a light, light-resistant container with a child-resistant closure.

**Cautions:** Federal law prohibits dispensing without prescription.

A Schedule CII Narcotic.

Manufactured For:  
**UCS PHARMA, INC.**  
Atlanta, GA 30080

Manufactured By:  
**WHEAT, INC.**  
Atlanta, GA 30318

Rev. 1/96  
Code 667800  
P/N FDA Sub.2

## LORTAB® 5/325

**HYDROCODONE\* BITARTRATE AND ACETAMINOPHEN TABLETS, USP**

**5 mg/325 mg**

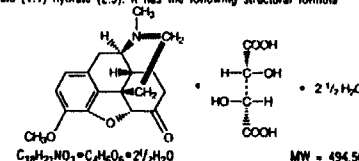
\*Warning: May be habit forming.



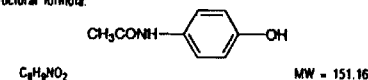
#### DESCRIPTION

Hydrocodone bitartrate and acetaminophen is supplied in Tablet form for oral administration.

Hydrocodone bitartrate is an opioid analgesic and antitussive and occurs as fine, white crystals or as a crystalline powder. It is attacked by light. The chemical name is 4,5α-epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). It has the following structural formula:



Acetaminophen, 4'-hydroxyacetanilide, a slightly bitter, white, odorless, crystalline powder, is a non-opiate, non-salicylate analgesic and antipyretic. It has the following structural formula:



Each Lortab 5/325 tablet contains:

Hydrocodone Bitartrate ..... 5 mg

Warning: May be habit forming

Acetaminophen ..... 325 mg

In addition each tablet contains the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, crospovidone, microcrystalline cellulose, povidone, pregelatinized starch, stearic acid and sugar spheres which are composed of starch derived from corn, sucrose, and FD&C Yellow #6.

#### CLINICAL PHARMACOLOGY

Hydrocodone is a semisynthetic narcotic analgesic and antitussive with multiple actions qualitatively similar to those of codeine. Most of these involve the central nervous system and smooth muscle. The precise mechanism of action of hydrocodone and other opiates is not known, although it is believed to relate to the existence of opiate receptors in the central nervous system. In addition to analgesia, narcotics may produce drowsiness, changes in mood and mental clouding.

The analgesic action of acetaminophen involves peripheral influences, but the specific mechanism is as yet undetermined. Antipyretic activity is mediated through hypothalamic heat regulating centers. Acetaminophen inhibits prostaglandin synthetase. Therapeutic doses of acetaminophen have negligible effects on the cardiovascular or respiratory systems; however, toxic doses may cause circulatory failure and rapid, shallow breathing.

**Pharmaceutics:** The behavior of the individual components is described below.

**Hydrocodone:** Following a 10 mg oral dose of hydrocodone administered to five adult male subjects, the mean peak concentration was  $23.6 \pm 5.2$  ng/mL. Maximum serum levels were achieved at  $1.3 \pm 0.3$  hours and the half-life was determined to be  $3.8 \pm 0.3$  hours. Hydrocodone exhibits a complex pattern of metabolism including O-demethylation, N-demethylation and 6-keto reduction to the corresponding 6- $\alpha$ - and 6- $\beta$ -hydroxymetabolites.

See OVERDOSAGE for toxicity information.

**Acetaminophen:** Acetaminophen is rapidly absorbed from the gastrointestinal tract and is distributed throughout most body tissues. The plasma half-life is 1.25 to 3 hours, but may be increased by liver damage and following overdosage. Elimination of acetaminophen is principally by liver metabolism (conjugation) and subsequent renal excretion of metabolites. Approximately 85% of an oral dose appears in the urine within 24 hours of administration, most as the glucuronide conjugate, with small amounts of other conjugates and unchanged drug.

See OVERDOSAGE for toxicity information.

#### INDICATIONS AND USAGE

Lortab 5/325 (Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg/325 mg) are indicated for the relief of moderate to moderately severe pain.

#### CONTRAINDICATIONS

This product should not be administered to patients who have previously exhibited hypersensitivity to hydrocodone or acetaminophen.

#### WARNINGS

**Respiratory Depression:** At high doses or in sensitive patients, hydrocodone may produce dose-related respiratory depression by acting directly on the brain stem respiratory center. Hydrocodone also affects the center that controls respiratory rhythm, and may produce irregular and periodic breathing.

**Head Injury and Increased Intracranial Pressure:** The respiratory depressant effects of narcotics and their capacity to elevate cerebrospinal fluid pressure may be markedly exaggerated in the presence of head injury, other intracranial lesions or a preexisting increase in intracranial pressure. Furthermore, narcotics produce adverse reactions which may obscure the clinical course of patients with head injury.

**Acute Abdominal Conditions:** The administration of narcotics may obscure the diagnosis or clinical course of patients with acute abdominal conditions.

#### PRECAUTIONS

**General: Special Risk Patients:** As with any narcotic analgesic agent, Lortab 5/325 tablets should be used with caution in elderly or debilitated patients, and those with severe impairment of hepatic or renal function, hypothyroidism, Addison's disease, prostatic hypertrophy or urethral stricture. The usual precautions should be observed and the possibility of respiratory depression should be kept in mind.

**Cough Reflex:** Hydrocodone suppresses the cough reflex; as with all narcotics, caution should be exercised when Lortab 5/325 tablets are used postoperatively and in patients with pulmonary disease.

**Information for Patients:** Hydrocodone, like all narcotics, may impair mental and/or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery; patients should be cautioned accordingly.

Alcohol and other CNS depressants may produce an additive CNS depression, when taken with this combination product, and should be avoided.

Hydrocodone may be habit-forming. Patients should take the drug only for as long as it is prescribed, in the amounts prescribed, and no more frequently than prescribed.

**Laboratory Tests:** In patients with severe hepatic or renal disease, effects of therapy should be monitored with serial liver and/or renal function tests.

**Drug Interactions:** Patients receiving narcotics, antihistamines, antipsychotics, anxiolytic agents, or other CNS depressants (including alcohol) concomitantly with hydrocodone bitartrate and acetaminophen tablets may exhibit an additive CNS depression. When combined therapy is contemplated, the dose of one or both agents should be reduced.

The use of MAO inhibitors or tricyclic antidepressants with hydrocodone preparations may increase the effect of either the antidepressant or hydrocodone.

**Drug/Laboratory Test Interactions:** Acetaminophen may produce false-positive test results for urinary 5-hydroxyindoleacetic acid.

**Carcinogenesis, Mutagenesis, Impairment of Fertility:** No adequate studies have been conducted in animals to determine whether hydrocodone or acetaminophen have a potential for carcinogenesis, mutagenesis, or impairment of fertility.

#### Pregnancy:

**Teratogenic Effects:** Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women. Lortab 5/325 tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

**Nonteratogenic Effects:** Babies born to mothers who have been taking opioids regularly prior to delivery will be physically dependent. The withdrawal signs include irritability and excessive crying, tremors, hyperactive reflexes, increased respiratory rate, increased stools, sneezing, yawning, vomiting and fever. The intensity of the syndrome does not always correlate with the duration of maternal opioid use or dose. There is no consensus on the best method of managing withdrawal.

**Labor and Delivery:** As with all narcotics, administration of this product to the mother shortly before delivery may result in some degree of respiratory depression in the newborn, especially if higher doses are used.

**Nursing Mothers:** Acetaminophen is excreted in breast milk in small amounts, but the significance of its effects on nursing infants is not known. It is not known whether hydrocodone is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from hydrocodone and acetaminophen, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

**Pediatric Use:** Safety and effectiveness in pediatric patients have not been established.

#### ADVERSE REACTIONS

The most frequently reported adverse reactions are light-headedness, dizziness, sedation, nausea and vomiting. These effects seem to be more prominent in ambulatory than in non-ambulatory patients, and some of these adverse reactions may be alleviated if the patient lies down.

Other adverse reactions include:

**Central Nervous System:** Drowsiness, mental clouding, lethargy, impairment of mental and physical performance, anxiety, fear, dysphoria, psychic dependence, mood changes.

**Gastrointestinal System:** Prolonged administration of Lortab 5/325 tablets may produce constipation.

**Genitourinary System:** Urinary spasm, spasm of vesical sphincters and urinary retention have been reported with opiates.

**Respiratory Depression:** Hydrocodone bitartrate may produce dose-related respiratory depression by acting directly on brain stem respiratory centers (see OVERDOSAGE).

**Dermatologic:** Skin rash, pruritus.

The following adverse drug events may be borne in mind as potential effects of acetaminophen: allergic reactions, rash, thrombocytopenia, agranulocytosis.

Potential effects of high dosage are listed in the OVERDOSAGE section.

#### DRUG ABUSE AND DEPENDENCE

**Controlled Substance:** Lortab 5/325 tablets (Hydrocodone Bitartrate and Acetaminophen Tablets, USP, 5 mg/325 mg) are classified as a Schedule III controlled substance.

**Abuse and Dependence:** Psychic dependence, physical dependence, and tolerance may develop upon repeated administration of narcotics; therefore, this product should be prescribed and administered with caution. However, psychic dependence is unlikely to develop when hydrocodone bitartrate and acetaminophen tablets are used for a short time for the treatment of pain.

Physical dependence, the condition in which continued administration of the drug is required to prevent the appearance of a withdrawal syndrome, assumes clinically significant proportions only after several weeks of continued narcotic use, although some mild degree of physical dependence may develop after a few days of narcotic therapy. Tolerance, in which increasingly large doses are required in order to produce the same degree of analgesia, is manifested initially by a shortened duration of analgesic effect, and subsequently by decreases in the intensity of analgesia. The rate of development of tolerance varies among patients.

#### OVERDOSAGE

Following an acute overdosage, toxicity may result from hydrocodone or acetaminophen.

#### Signs and Symptoms:

**Hydrocodone:** Serious overdosage with hydrocodone is characterized by respiratory depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration, cyanosis), extreme somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, and sometimes bradycardia and hypotension. In severe overdosage, apnea, circulatory collapse, cardiac arrest and death may occur.

## Proposed Package Insert

### HYDROCODONE BITARTRATE AND ACETAMINOPHEN TABLETS, USP 5 mg/325 mg

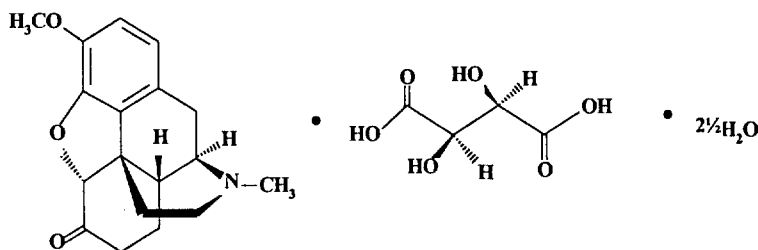
III

Rx only

#### DESCRIPTION

Hydrocodone Bitartrate and Acetaminophen Tablets are supplied in tablet form for oral administration.

Hydrocodone bitartrate is an opioid analgesic and antitussive and occurs as fine, white crystals or as a crystalline powder. It is affected by light. The chemical name is: 4,5 $\alpha$ -epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). It has the following structural formula:

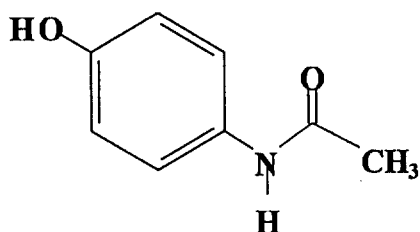


Hydrocodone Bitartrate

$C_{18}H_{21}NO_3 \cdot C_4H_6O_6 \cdot 2\frac{1}{2}H_2O$

MW=494.50

Acetaminophen, 4'-hydroxyacetanilide, a slightly bitter, white, odorless, crystalline powder, is a non-opiate, non-salicylate analgesic and antipyretic. It has the following structural formula:



Acetaminophen

$C_8H_9NO_2$

MW = 151.17

Each HYDROCODONE BITARTRATE AND ACETAMINOPHEN, USP

5 mg/325 mg tablet contains:

Hydrocodone Bitartrate, USP. . . . . 5 mg

Acetaminophen, USP. . . . . 325 mg

In addition, each tablet contains the following inactive ingredients: Crospovidone NF, Magnesium Stearate NF, Microcrystalline Cellulose NF, Povidone USP, Pregelatinized Starch NF, Silicon Dioxide NF, and Stearic Acid NF.

### CLINICAL PHARMACOLOGY

Hydrocodone is a semisynthetic narcotic analgesic and antitussive with multiple actions qualitatively similar to those of codeine. Most of these involve the central nervous system and smooth muscle. The precise mechanism of action of hydrocodone and other opiates is not known, although it is believed to relate to the existence of opiate receptors in the central nervous system. In addition to analgesia, narcotics may produce drowsiness, changes in mood and mental clouding.

The analgesic action of acetaminophen involves peripheral influences, but the specific mechanism is as yet undetermined. Antipyretic activity is mediated through hypothalamic heat regulating centers. Acetaminophen inhibits prostaglandin synthetase. Therapeutic doses of acetaminophen have negligible effects on the cardiovascular or respiratory systems; however, toxic doses may cause circulatory failure and rapid, shallow breathing.

**Pharmacokinetics:** The behavior of the individual components is described below.

**Hydrocodone:** Following a 10 mg oral dose of hydrocodone administered to five adult male subjects, the mean peak concentration was  $23.6 \pm 5.2$  ng/mL. Maximum serum levels were achieved at  $1.3 \pm 0.3$  hours and the half-life was determined to be  $3.8 \pm 0.3$  hours. Hydrocodone exhibits a complex pattern of metabolism including O-demethylation, N-demethylation and 6-keto reduction to the corresponding 6- $\alpha$  - and 6- $\beta$ -hydroxymetabolites.

See **OVERDOSAGE** for toxicity information.

**Acetaminophen:** Acetaminophen is rapidly absorbed from the gastrointestinal tract and is distributed throughout most body tissues. The plasma half-life is 1.25 to 3 hours, but may be increased by liver damage and following overdosage. Elimination of acetaminophen is principally by liver metabolism (conjugation) and subsequent renal excretion of metabolites. Approximately 85% of an oral dose appears in the urine within 24 hours of administration, most as the glucuronide conjugate, with small amounts of other conjugates and unchanged drug.

See **OVERDOSAGE** for toxicity information.

### INDICATIONS AND USAGE

Hydrocodone bitartrate and acetaminophen tablets are indicated for the relief of moderate to moderately severe pain.

### CONTRAINDICATIONS

This product should not be administered to patients who have previously exhibited hypersensitivity to hydrocodone or acetaminophen.

## WARNINGS

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**Acute Abdominal Conditions:** The administration of narcotics may obscure the diagnosis or clinical course of patients with acute abdominal conditions.

## PRECAUTIONS

**General: Special Risk Patients:** As with any narcotic analgesic agent, hydrocodone bitartrate and acetaminophen tablets should be used with caution in elderly or debilitated patients, and those with severe impairment of hepatic or renal function, hypothyroidism, Addison's disease, prostatic hypertrophy or urethral stricture. The usual precautions should be observed and the possibility of respiratory depression should be kept in mind.

**Cough Reflex:** Hydrocodone suppresses the cough reflex; as with all narcotics, caution should be exercised when hydrocodone bitartrate and acetaminophen tablets are used postoperatively and in patients with pulmonary disease.

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**Laboratory Tests:** In patients with severe hepatic or renal disease, effects of therapy should be monitored with serial liver and/or renal function tests.

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The use of MAO inhibitors or tricyclic antidepressants with hydrocodone preparations may increase the effect of either the antidepressant or hydrocodone.

**Drug/Laboratory Test Interactions:** Acetaminophen may produce false-positive test results for urinary 5-hydroxyindoleacetic acid.

**Carcinogenesis, Mutagenesis, Impairment of Fertility:** No adequate studies have been conducted in animals to determine whether hydrocodone or acetaminophen have a potential for carcinogenesis, mutagenesis, or impairment of fertility.

**Pregnancy:**

*Teratogenic Effects:* Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women. Hydrocodone bitartrate and acetaminophen tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

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**ADVERSE REACTIONS**

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Other adverse reactions include:

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**Gastrointestinal System:** Prolonged administration of hydrocodone bitartrate and acetaminophen tablets may produce constipation.

**Genitourinary System:** Ureteral spasm, spasm of vesical sphincters and urinary retention have been reported with opiates.

**Respiratory Depression:** Hydrocodone bitartrate may produce dose-related respiratory depression by acting directly on the brain stem respiratory centers (see **OVERDOSAGE**).

**Dermatological:** Skin rash, pruritus.

The following adverse drug events may be borne in mind as potential effects of acetaminophen: allergic reactions, rash, thrombocytopenia, agranulocytosis. Potential effects of high dosage are listed in the **OVERDOSAGE** section.

**DRUG ABUSE AND DEPENDENCE**

**Controlled Substance:** Hydrocodone Bitartrate and Acetaminophen Tablets are classified as a Schedule III controlled substance.

**Abuse and Dependence:** Psychic dependence, physical dependence, and tolerance may develop upon repeated administration of narcotics; therefore, this product should be prescribed and administered with caution. However, psychic dependence is unlikely to develop when hydrocodone bitartrate and acetaminophen tablets are used for a short time for the treatment of pain.

Physical dependence, the condition in which continued administration of the drug is required to prevent the appearance of a withdrawal syndrome, assumes clinically significant proportions only after several weeks of continued narcotic use, although some mild degree of physical dependence may develop after a few days of narcotic therapy. Tolerance, in which increasingly large doses are required in order to produce the same degree of analgesia, is manifested initially by a shortened duration of analgesic effect, and subsequently by decreases in the intensity of analgesia. The rate of development of tolerance varies among patients.

### **OVERDOSAGE**

Following an acute overdosage, toxicity may result from hydrocodone or acetaminophen.

#### ***Signs and Symptoms:***

Hydrocodone: Serious overdose with hydrocodone is characterized by respiratory depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration, cyanosis), extreme somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, and sometimes bradycardia and hypotension. In severe overdosage, apnea, circulatory collapse, cardiac arrest and death may occur.

Acetaminophen: In acetaminophen overdosage: dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma, and thrombocytopenia may also occur.

Early symptoms following a potentially hepatotoxic overdose may include: nausea, vomiting, diaphoresis and general malaise. Clinical and laboratory evidence of hepatic toxicity may not be apparent until 48 to 72 hours post-ingestion. In adults, hepatic toxicity has rarely been reported with acute overdoses of less than 10 grams and fatalities with less than 15 grams.

**Treatment:** A single or multiple overdose with hydrocodone and acetaminophen is a potentially lethal polydrug overdose, and consultation with a regional poison control center is recommended.

Immediate treatment includes support of cardiorespiratory function and measures to reduce drug absorption. Vomiting should be induced mechanically, or with syrup of ipecac, if the patient is alert (adequate pharyngeal and laryngeal reflexes). Oral activated charcoal (1g/kg) should follow gastric emptying. The first dose should be accompanied by an appropriate cathartic. If repeated doses are used, the cathartic might be included with alternate doses as required. Hypotension is usually hypovolemic and should respond to fluids. Vasopressors and other supportive measures should be employed as indicated. A cuffed endotracheal tube should be inserted before gastric lavage of the unconscious patient and, when necessary, to provide assisted respiration.

Meticulous attention should be given to maintaining adequate pulmonary ventilation. In severe cases of intoxication, peritoneal dialysis, or preferably hemodialysis may be considered. If hypoprothrombinemia occurs due to acetaminophen overdose, vitamin K should be administered intravenously.

Naloxone, a narcotic antagonist, can reverse respiratory depression and coma associated with opioid overdose. Naloxone hydrochloride 0.4 mg to 2 mg is given parenterally. Since the duration of action of hydrocodone may exceed that of naloxone, the patient should be kept under continuous surveillance and repeated doses of the antagonist should be administered as needed to maintain adequate respiration. A narcotic antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression.

If the dose of acetaminophen may have exceeded 140 mg/kg, acetylcysteine should be administered as early as possible. Serum acetaminophen levels should be obtained, since levels four or more hours following ingestion help predict acetaminophen toxicity. Do not await acetaminophen assay results before initiating treatment. Hepatic enzymes should be obtained initially, and repeated at 24-hour intervals.

Methemoglobinemia over 30% should be treated with methylene blue by slow intravenous administration.

The toxic dose for adults for acetaminophen is 10 grams.

#### **DOSAGE AND ADMINISTRATION**

Dosage should be adjusted according to the severity of the pain and the response of the patient. However, it should be kept in mind that tolerance to hydrocodone can develop with continued use and that the incidence of untoward effects is dose related.

The usual adult dosage is one or two tablets every four to six hours as needed for pain. The total daily dosage should not exceed 8 tablets.

#### **HOW SUPPLIED**

Each HYDROCODONE BITARTRATE AND ACETAMINOPHEN, USP  
5 mg/325 mg tablet contains Hydrocodone Bitartrate 5 mg and Acetaminophen 325 mg. It is available as an oval-shaped white tablet debossed with M365 on one side and bisected on the other side.

Bottles of 100 .....	NDC No. 0406-0365-01
Bottles of 500.....	NDC No. 0406-0365-05
Bottles of 1000.....	NDC No. 0406-0365-10
Unit Dose.....	NDC No. 0406-0365-63

**Storage:** Store at controlled room temperature 15° to 30°C (59° to 86°F).  
Dispense in a tight, light-resistant container with a child-resistant closure.

Mallinckrodt Inc.  
St. Louis, Missouri 63134, U.S.A.

9/99



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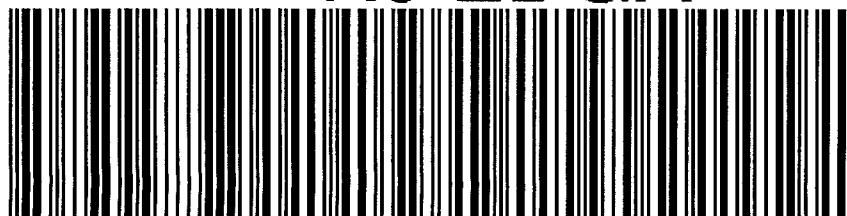
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